## X-day test results

Ed Masuoka 7/13/99

# Loader/PGE/Database performance

- Very reliable performance for PGEs as shown in tic-tat-toe charts for L2-Daily L3
  - No deadlock problems
  - No PGEs failing due to upstream errors
  - Results were obtained from "perfect" input data
- 8-day Land products are being shaken out now and preliminary results look good

## Problem (disk space)

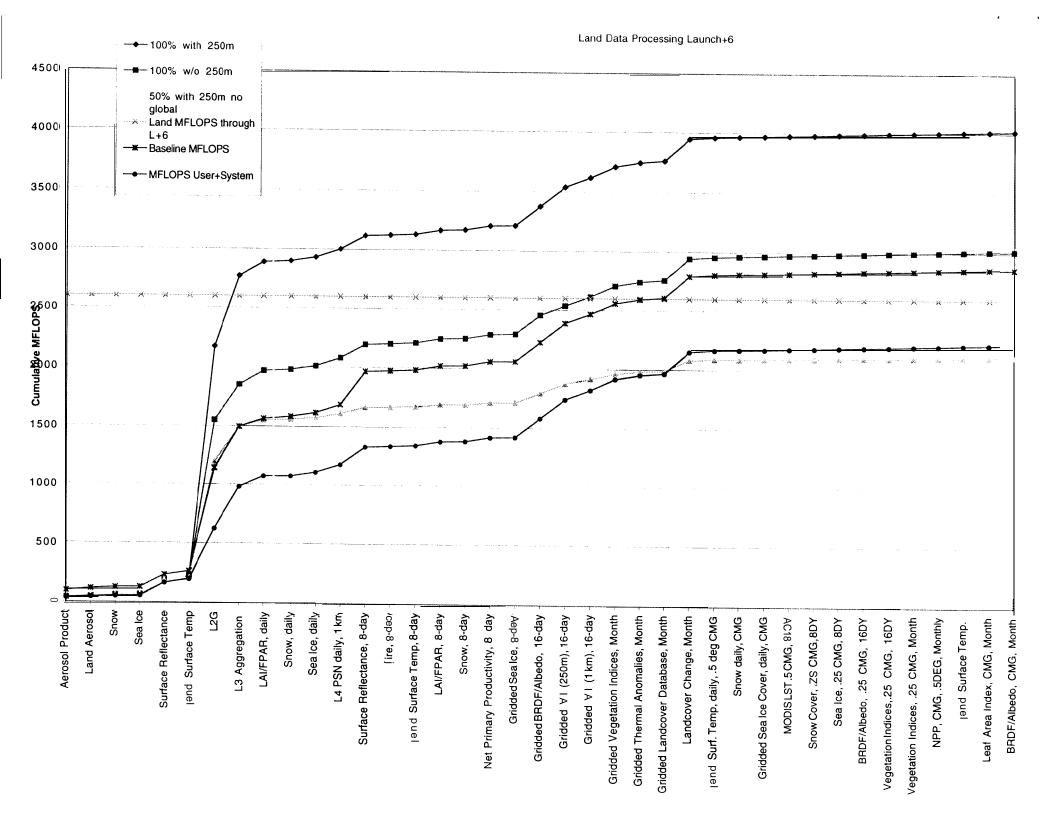
- Running out of disk space
  - We have 1TB online and can run out of space when running large processing like L2g, 8-day land, LST and Ocean PGEs
  - Remaining 2TB of disk space needs to be added
  - Change PGE perl script to delete interim files once they are no longer needed rather than when a PGE ends
  - Fix PGEs to insure that interim files are deleted
  - Document resource profile for each PGE and adjust job mix

## Problem (Scheduler hangs)

- Daemons can hang when preparing large job streams for L2g (MDL5) and S-day land (MDL10)
  - Operator intervention required to restart daemons. Less than a minute and not an issue for 7x24 operations.
  - Will estimate level of effort required for V1 patch but currently not planning a V1 fix

## Problem (I/O wait)

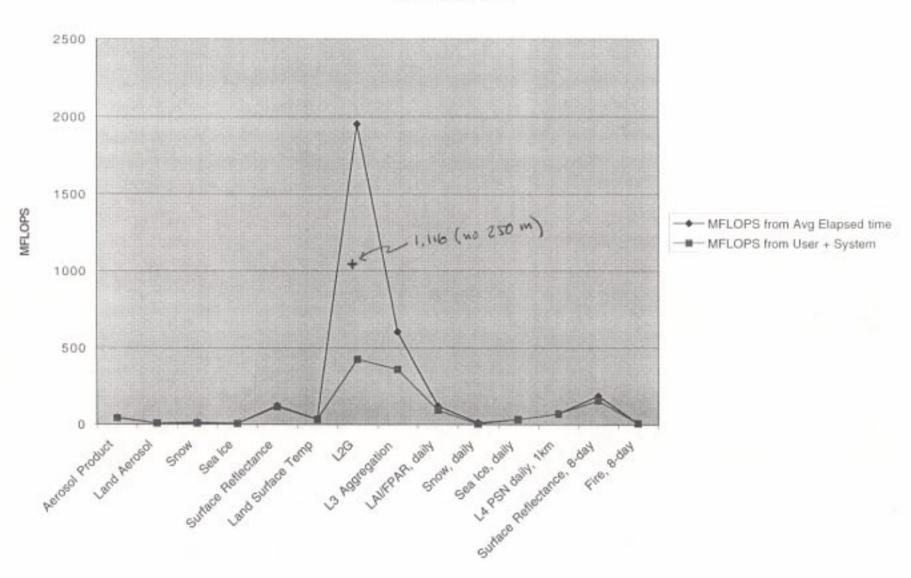
- For some PGEs significant resources are lost waiting for I/O
  - For PGEs with significant I/O wait times we are analyzing their problems and modifying PGEs and perl scripts where this makes a difference
  - We are looking into whether the MODAPS V2 file system can be incorporated into V1 but will probably wait for V2 delivery in early 2000



Product	Basoline	MFLOPS Elopsod tow
Cloud Proporties	900	489*
Zonal proceeding	95	47
DAILY	8	1
Weekly	<b>N</b> A	• 2
Montaly	. 3	.3
	1003 MFCOP	5 537 MFWPS

Atmosphere Benchmarks versus Baschie \* 2x faster versum anteipeted

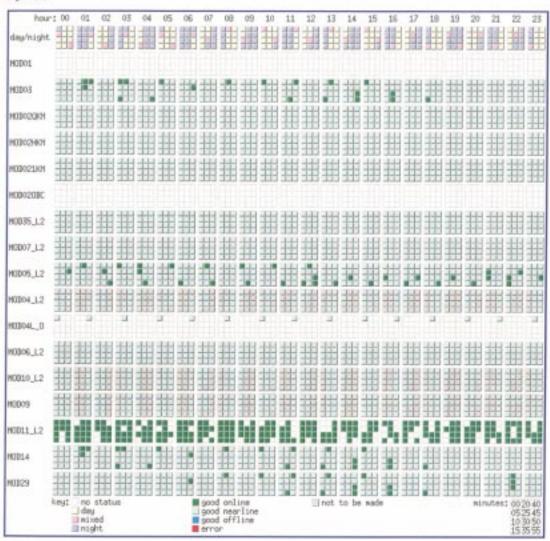
### Land Processing



#### Granule Image for 1997 223

Mon Jul 12 19:01:41 1999

begin - end



For further information contact: mehshelp@lipmail.esfc.nava.gov

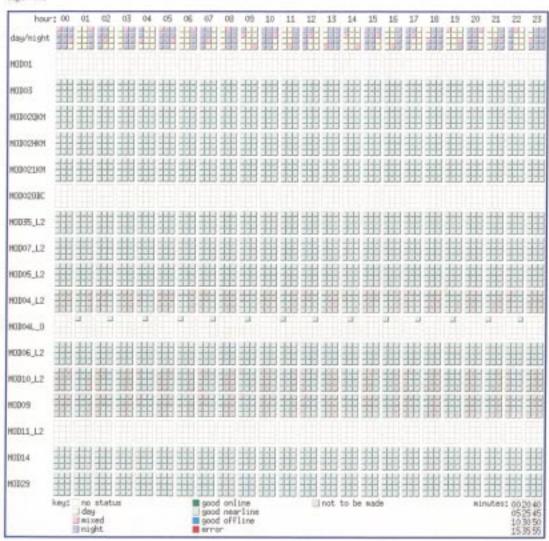
Responsible NASA Official: Ed Manuela. Web Curator: problem@hpmail.psfc.nasa.gov.

Return to the MODIS Emergency Backup Data Ordering System Home Page.

#### Granule Image for 1997 224

Mon Jul 12 19:02:47 1999

begin-end



For further information consuct: mehshelp@lipmail.psfc.nasa.gov

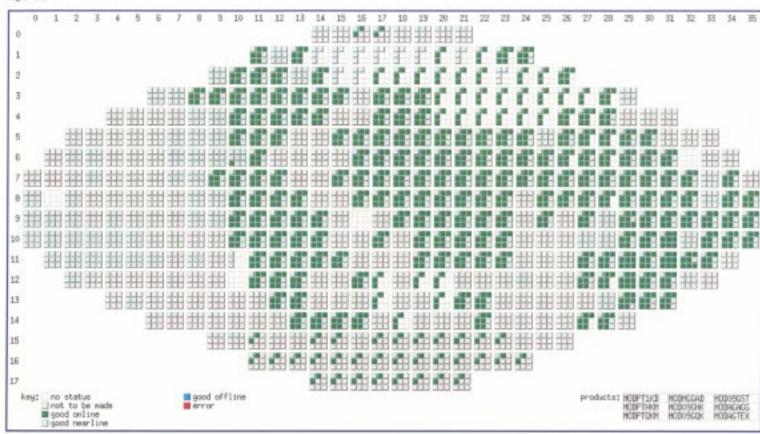
Responsible NASA Official: <u>Ed Massoka</u> Web Curator: <u>problem@bpmail.gdc.nasa.gov</u>

Return to the MODIS Emergency Suckey Data Ordering System Home Page

#### Daily Surface Reflectance for 1997 223

Mon Jul 12 19:03:24 1999

begin - end



#### Tile Key

For further information contact: mehshelp@lipmail.pdr.nasa.pov

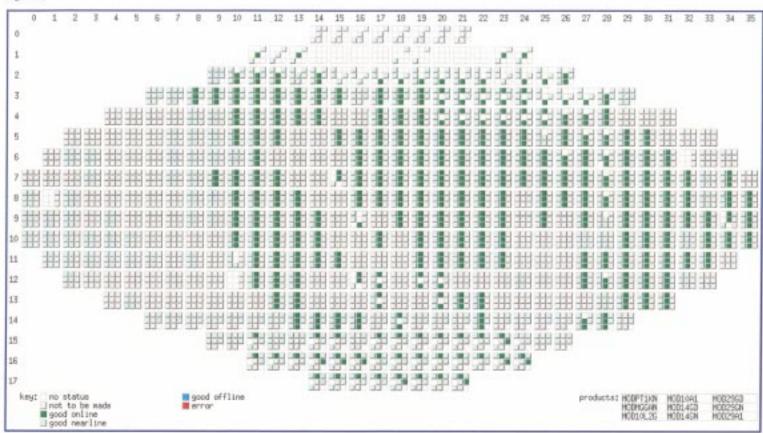
Responsible NASA Official: Ed Mazuoka. Web Curator: problem@lpmail.pdc.nasa.gov

Robert to the MODIS Emergency Backup Data Ordering System House Page.

#### Daily Fire and Cryospheric for 1997 223

Mon Jul 12 19:04:10 1999

begin-end



#### Tile Key

For further information connect: mehshelp@ltpmail.gdc.nasa.gov

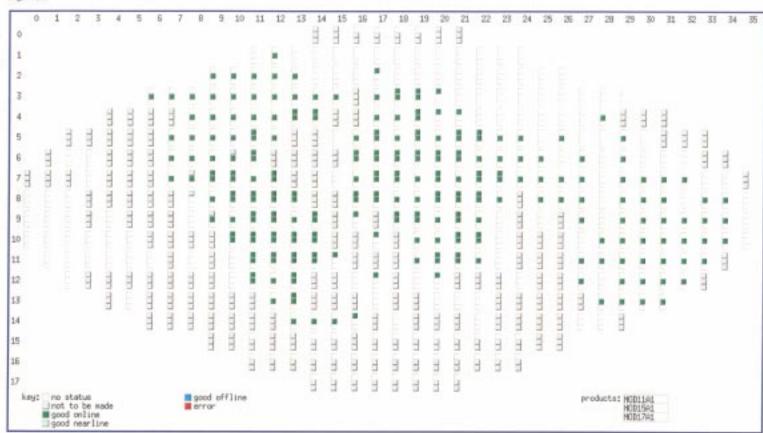
Responsible NASA Official: Ed Massoka. Web Curator: problem@lipmail.gsfc.nasa.gov.

Return to the MODIS Emergency Backup Data Ordering System Home Page

#### Daily Thermal and Biophysical for 1997 223

Mon Jul 12 19:04:46 1999

begin - end



#### Tile Key

For further information contact: mebshelp@ltpmail.gsfc.nasa.gov

Responsible NASA Official: Ed Manuska. Web Curusor: problem@lpmail.gsfc.nasa.gov.

Seture to the MODIS Emergency Suckey Date Ordering System Home Page.